ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 08/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for BC.
Sample Location : Ward No.2
Total Weight of Sample : 3000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	302	302	12.1	87.9	79-100
9.5	260	562	22.5	77.5	70-88
4.75	305	867	34.7	65.3	53-71
2.36	284	1151	46.0	54.0	42-58
1.18	298	1449	58.0	42.0	34-48
0.6	289	1738	69.5	30.5	26-38
0.3	289	2027	81.1	18.9	18-28
0.15	200	2227	89.1	10.9	12-20
0.075	197	2426	97.0	3.0	4-10

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*

Note:

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India.
Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 10/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for BC.
Sample Location : Ward No.2
Total Weight of Sample : 3000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	235	235	9.4	90.6	79-100
9.5	261	496	19.8	80.2	70-88
4.75	309	805	32.2	67.8	53-71
2.36	287	1092	43.7	56.3	42-58
1.18	306	1398	55.9	44.1	34-48
0.6	301	1699	68.0	32.0	26-38
0.3	289	1988	79.5	20.5	18-28
0.15	162	2150	86.0	14.0	12-20
0.075	199	2349	94.0	6.0	4-10

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*
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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 13/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.1)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2232	2198	2241
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6973	6989	6832
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5393	5385	5345
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1244	1261	1253
6	Volume of sand in the hole, V=wb / Ys , cm3	921.48	934.07	928.15
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.42	2.35	2.41
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	64.53	64.12	63.65
10	Dry Weight =	59 98	60.02	59.22
11	Moisture Content =	5.06	5.01	5.24
12	Field Dry Density (g/cc)	2.30	2.24	2.29

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 14/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.1)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2419	2384	2278
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6960	6950	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5342	5350	5347
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1281	1269	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	948.89	940.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.55	2.54	2.45
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	62.89	63.78	63.58
10	Dry Weight =	57.81	59.23	59.41
11	Moisture Content =	5.45	5.03	5.76
12	Field Dry Density (g/cc)	2.41	2.41	2.31

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 16/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.1)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2215	2193	2175
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6960	6950	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5342	5350	5347
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1281	1269	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	948.89	940.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.33	2.33	2.34
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	62.89	63.78	63.58
10	Dry Weight =	57.81	59.23	59.41
11	Moisture Content =	5.45	5.03	5.76
12	Field Dry Density (g/cc)	2.21	2.22	2.20

Satisfy the Limits ☑
Does not satisfy the limits
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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 13/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2418	2387	2359
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6873	6990	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5395	5345	5395
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1289	1257	1272
6	Volume of sand in the hole, V=wb / Ys , cm3	954.81	931.11	942.22
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.53	2.56	2.50
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.26	63.72
10	Dry Weight =	58.82	60.28	59.82
11	Moisture Content =	5.21	5.05	5.11
12	Field Dry Density (g/cc)	2.40	2.43	2.38

Satisfy the Limits ☑
Does not satisfy the limits
As Furnished by the Customer

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 02/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2354	2458	2419
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6825	6783	6750
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5392	5465	5436
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1254	1297	1253
6	Volume of sand in the hole, V=wb / Ys , cm3	928.89	960.74	928.15
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.53	2.56	2.61
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.83	62.86	63.25
10	Dry Weight =	58.96	58.23	59.65
11	Moisture Content =	5.71	6.95	5.32
12	Field Dry Density (g/cc)	2.39	2.38	2.47

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 08/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2359	2405	2395
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6853	6951	6893
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5396	5672	5493
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1272	1283	1269
6	Volume of sand in the hole, V=wb / Ys , cm3	942.22	950.37	940.00
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.50	2.53	2.55
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	65.82	65.21	63.79
10	Dry Weight =	61.59	61.02	58.85
11	Moisture Content =	6.81	6.25	6.26
12	Field Dry Density (g/cc)	2.33	2.37	2.39

☑ *Satisfy the Limits*
Does not satisfy the limits
** As Furnished by the Customer*

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 10/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2186	2156	2176
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6987	6854	6875
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5432	5234	5396
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1258	1242	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	931.85	920.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.35	2.34	2.34
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.26	63.72
10	Dry Weight =	58.82	60.28	59.82
11	Moisture Content =	5.21	5.05	5.11
12	Field Dry Density (g/cc)	2.22	2.23	2.22

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 11/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for DBM.
Sample Location : Ward No.2
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	419	419	6.1	93.9	90-100
19	1154	1573	23.0	77.0	71-95
13.2	1112	2685	39.3	60.7	56-80
4.75	1004	3689	53.9	46.1	38-54
2.36	880	4569	66.8	33.2	28-42
0.3	1274	5843	85.4	14.6	7-21
0.075	995	6838	98.0	2.0	2-8

Satisfy the Limits ☑
Does not satisfy the limits
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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 01/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for DBM.
Sample Location : Ward No.2
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	425	425	6.2	93.8	90-100
19	1157	1582	23.1	76.9	71-95
13.2	1107	2689	39.3	60.7	56-80
4.75	1006	3695	54.0	46.0	38-54
2.36	884	4579	66.9	33.1	28-42
0.3	1281	5860	85.6	14.4	7-21
0.075	987.45	6847.45	98.0	2.0	2-8

Satisfy the Limits ☑
Does not satisfy the limits
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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 04/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for DBM.
Sample Location : Ward No.2
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	699	699	9.3	90.7	90-100
19	1287	1986	26.5	73.5	71-95
13.2	1241	3227	43.0	57.0	56-80
4.75	988	4215	56.2	43.8	38-54
2.36	887	5102	68.0	32.0	28-42
0.3	1210	6312	84.2	15.8	7-21
0.075	1107	7419	97.9	2.1	2-8

Satisfy the Limits ☑
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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 07/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for DBM.
Sample Location : Ward No.2
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	655	655	8.7	91.3	90-100
19	1022	1677	22.4	77.6	71-95
13.2	1335	3012	40.2	59.8	56-80
4.75	997	4009	53.5	46.5	38-54
2.36	884	4893	65.2	34.8	28-42
0.3	1040	5933	79.1	20.9	7-21
0.075	1222	7155	95.4	4.6	2-8

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India
Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 09/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for DBM.
Sample Location : Ward No.2
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	555	555	7.4	92.6	90-100
19	1245	1800	24.0	76.0	71-95
13.2	1241	3041	40.5	59.5	56-80
4.75	988	4029	53.7	46.3	38-54
2.36	887	4916	65.5	34.5	28-42
0.3	1210	6126	81.7	18.3	7-21
0.075	1107	7233	96.4	3.6	2-8

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*

Note:

1. The test results relate only to the item(s) tested.
2. Publication or reproduction of this report in any form other than by complete set of the whole report and in the language written is not permitted without the written approval.
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For **ALCON CTL TESTING PVT. LTD.**

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 25/09/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for GSB.
Sample Location : Ward No.1
Total Weight of Sample : 11500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
26.5	289	289	2.42	97.58	70-100
9.5	3899	4188	35.10	64.90	50-80
4.75	2547	6735	56.44	43.56	40-65
2.36	1241	7976	66.84	33.16	30-50
0.425	1956	9932	83.23	16.77	15-25
0.075	2001	11933	97.00	3.00	3-10

Satisfy the Limits ☑
Does not satisfy the limits
As Furnished by the Customer
Note:

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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